TRIVALENCE

TriVEX™ 26 (U,R)

Polycarbonate + Siloxane

General Information

Product Description

Polycarbonate modified with siloxane for superior cold temperature impact resistance. High flow.

FEATURES		ADDITIONAL FORMULAS	COLOR
-Good Impact/Ductility (Ambient and Extreme Cold)	-Offers Paint Elimination	-Added Release "R"	-All
-Enhanced Flow and Release	-PFAS Free	-Additional UV "U" - Great UV Perfomance	
-Excellent Aesthetics	-Improved Chemical Resistance		
-RoHS/REACH Compliant			

General

Typical Applications	-Solar, military and defense gear, heathcare, EV battery, sporting goods, safety and rescue, transportation, lawn and garden, industrial packaging, electrical components, oil/gas, appliance, aerospace, 3d printing, recreational vehicles, building materials, railway, wire and cable.
Processing Method	-Injection/Extrusion
Form(s)	-Pellets
Availability	-North America, Europe, Latin America

ASTM / ISO Properties[1]

Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm³	ASTM D792
Melt Flow Rate (300°C/1.2kg)	15	g/10min	ASTM D1238
Molding Shrinkage - Flow (3.2mm)	0.5 to 0.8	%	TVT Internal
Outdoor Suitability (QUV) (U Grades)	Pass		TVT Internal
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength, brk	8400	psi	ASTM D638
Tensile Elongation	>115	%	ASTM D638
Flexural Modulus	315,000	psi	ASTM D790
Notched Izod Impact (R.T)	15	ft-lbs/in	ASTM D256
Notched Izod Impact (-40C)	12	ft-lbs/in	ASTM D257
Rockwell Hardness	116	R-Scale	ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (0.45 MPa)	258	°F	ASTM D648
Deflection Temperature Under Load (1.8 MPa)	245	°F	ASTM D648
Vicat Softening Temperature	282	°F	ASTM D1525
CLTE - Flow	3.5E-5	in/in/°F	ASTM E831
Flammability	**Nominal Value**	**Unit**	**Test Method**
0.12 in	V1		UL94 - Pending
Recommended Processing Guidance			
Drying Temperature	230 to 250	°F	
Drying Time	3 to 6	Hours	
Suggested Max Moisture	0.02	%	
Processing Melt Temperature	500 to 590	°F	
Mold Temperature	145 to 195	°F	